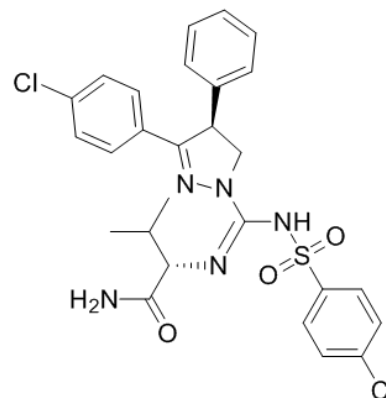


Product Name : JD-5037
Cat. No. : PC-45531
CAS No. : 1392116-14-1
Molecular Formula : C₂₇H₂₇Cl₂N₅O₃S
Molecular Weight : 572.506
Target : Cannabinoid Receptor
Solubility : DMSO: 10 mM



Biological Activity

JD-5037 is a potent, selective and peripherally restricted cannabinoid-1 (**CB1**) receptor blocker with IC₅₀ of 2 nM, does not inhibit CB2 receptor (IC₅₀>1000 nM).

JD-5037 was also characterized as an inverse agonist in forskolin-stimulated CHO cells over-expressing CB1-receptors by its ability to affect cAMP with EC₅₀ of 46 nM.

JD-5037 showed little brain presence as indicated by tissue distribution and receptor occupancy studies.

JD-5037 (20 mg/kg PO) normalized triglyceride levels, liver mass and ALT as well a beneficial effect on glycemic control in model of diabetes.

References

Chorvat RJ, et al. *Bioorg Med Chem Lett*. 2012 Oct 1;22(19):6173-80.

Tam J, et al. *Cell Metab*. 2012 Aug 8;16(2):167-79.

Knani I, et al. *Mol Metab*. 2016 Oct 22;5(12):1187-1199.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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